

Title (en)

TRAPLESS WATER FLUSH TOILET BOWL FIXTURE

Publication

EP 0222168 A3 19871202 (EN)

Application

EP 86114021 A 19861009

Priority

- JP 4923386 U 19860401
- JP 8436686 U 19860603
- JP 15606785 U 19851011
- JP 18211185 U 19851125
- JP 18495485 U 19851129

Abstract (en)

[origin: US4787103A] A trapless water flush toilet bowl fixture is disclosed. This fixture has: a water closet cesspool sealing member pivotally supported to shut off a waster water discharge port by impinging from underside upon this port; a sinker imparting a sufficient impingement force applied on a lower surface of the discharge port to the water closet cesspool sealing member to maintain a sealing state while resisting a load created when utilizing the same fixture; and a separating force imparting member manipulated by a manpower which member is capable of separating the sealing member from the discharge port by overcoming the impingement force. Furthermore, the trapless water flush toilet bowl fixture subsumes: a bowl having the waste water discharge port formed downwards in the bottom; a cylindrical member arranged to be nearly concentric with respect to the discharge port so that waste materials in the bowl pass therethrough and drop down, the cylindrical member having its diameter that is substantially the same as an aperture of the discharge port; and a ring-shaped seal-packing attachable to and detachable from an inner surface of the lower end of the cylindrical member; and a closing member provided at the lower end of the cylindrical member and making a seesaw motion round a fulcrum, this closing member subsuming a dish-like member which impinges from underside upon the seal-packing and a sinker installed on the opposite side to the dish-like member while interposing the fulcrum therebetween. In this constitution, the seal-packing is attachable to and detachable from the inside of the cylindrical member.

IPC 1-7

E03D 11/10; **E03D 5/012**

IPC 8 full level

E03D 11/10 (2006.01)

CPC (source: EP US)

E03D 11/10 (2013.01 - EP US)

Citation (search report)

- [X] DE 4743 C
- [X] DE 1819790 U 19601013 - HERMANN FRIZ K G [DE]
- [X] FR 608598 A 19260729 - HAVARD SOC
- [X] FR 1201671 A 19600104
- [X] FR 66159 E 19560517
- [X] DE 78252 C
- [X] DE 2555641 B2 19771124
- [A] FR 784496 A 19350722 - TRITON BELCO AG
- [AD] US 3599248 A 19710817 - FULTON HOWARD A, et al

Cited by

EP0897038A1; AU723736B2; EP1124021A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

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EP 86114021 A 19861009; DE 3671653 T 19861009; US 91161086 A 19860925